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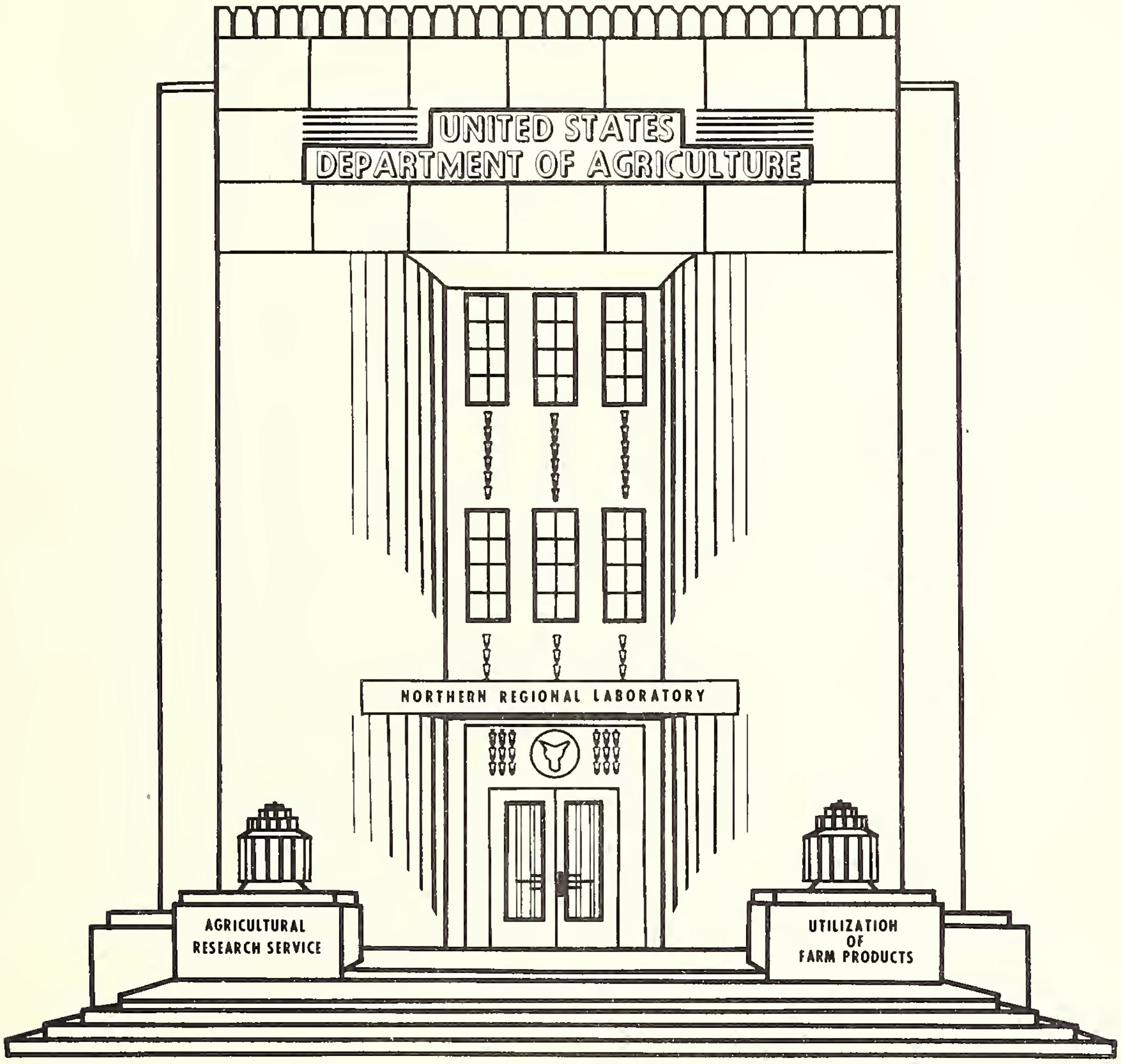
Publications and Patents on
DEXTRAN AND RELATED SUBJECTS
from Northern Regional Research Laboratory


UNITED STATES
DEPARTMENT OF AGRICULTURE
NORTHERN REGIONAL LABORATORY
AGRICULTURAL RESEARCH SERVICE
UTILIZATION OF FARM PRODUCTS

Agricultural Research Service
UNITED STATES DEPARTMENT OF AGRICULTURE

Investigations on the utilization and chemistry of starch comprise an important part of the research program of the Northern Utilization Research and Development Division, Peoria, Illinois, to develop new and improved uses for the cereal grains.

In 1944 specific studies were initiated on dextran as a source of the disaccharide, isomaltose, one of the constituent structures of starch. This fundamental dextran work formed the basis for an intensive research program begun in 1951 on the development of a blood-plasma volume expander material. The dextran investigations included in this compilation were closely coordinated with the program and recommendations of the National Research Council (Division of Medical Sciences, Subcommittees on Shock and Burns and on Blood and Blood Derivatives); the Bureau of Medicine and Surgery, Department of the Navy; the U. S. Public Health Service, National Institutes of Health; and the Office of Medical Services, Department of Defense.

At the request of the Department of the Army, Office of the Surgeon General, fundamental laboratory and engineering studies were conducted on the direct production of clinical-type dextrans by controlled enzymatic synthesis and by selected whole-culture fermentations.

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